

Use of specified enzymes, especially lysyl oxidase, as protein crosslinking agents for formulating compositions containing active ingredients

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Inventor: FRIEDRICH THOMAS (DE); BEWERT WOLFGANG (DE); LUEDDECKE ERIK (DE); KLINGLER JUERGEN (DE); HEGER ROBERT (DE)

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Abstract of DE19840489

An enzyme (I) selected from lipoxygenases, protein disulfide isomerase, phenol oxidases and peroxidases, lysyl oxidases, protein disulfide reductases, tyrosine oxidases or sulfhydryl oxidases is used to formulate compositions containing active ingredients. Independent claims are also included for the following: (1) a process for producing compositions in which one or more active ingredients are surrounded by at least one layer, where at least part of at least one layer comprises a protein that has been crosslinked with (I). (2) a composition in which at least part of at least one layer surrounding one or more active ingredients comprises a protein that has been crosslinked with (I); (3) an isolated protein comprising at least one of amino acid sequences (II)-(XIII): (a) G(S)(C)Q(C)KTNEKVNIEAPKPNI(C)DT (L)(S) (b) EYP(C)APDVVYNTK (c) GGTYSTVTQNPTLNR (d) DYNIMPAGGXVHR (e) ATGGTYSTVXAQN (f) APETENNAR (g) GPL(P)VNE(E)TTIEPLSFYNT (h) IYELSLQELIAEYGSDDPNNQHTFYSDI (i) DNVDDLSCTIIQR (j) VAPETENCAR (k) NVDVEYPCAPGVVYNTK (l) GYPNAEY(S)LDF/ER, in which lysine iota -amino groups are optionally oxidized to aldehyde groups; and (4) a food or animal feed containing the composition of (2).

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